Generic ASCII Ethernet Interface Module
MVI46-GEC

The use of the TCP/IP protocol with Ethernet at the device level on the plant floor is becoming widespread in many industry segments. Using the MVI46-GEC, the advantage of Ethernet speed is realized while allowing greater distances between networked devices. This module provides connectivity to many ASCII devices, including applications in:

- *Bar code scanner interfaces*
- *Weigh scale interfaces*
- *Legacy ASCII protocol connections*
- *Terminal port emulation*
- *Printer driver (alarm/status printer)*

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Generic ASCII Ethernet Interface Module

MVI46-GEC
The MVI46 Generic ASCII Ethernet Interface module is designed to allow SLC processors to interface easily with ASCII devices using the TCP/IP protocol and the SLC processor. Compatible devices may be either ASCII instruments with Ethernet built-in or Ethernet connection via a thin server to the existing ASCII device.

Features and Benefits
Five servers and clients are present on the module permitting both the reception and transmission of data between the Rockwell Automation processor and attached devices.

The MVI46-GEC module is a powerful communication interface for SLC platform processors. Developed under license from Rockwell Automation, the module incorporates proprietary backplane technology that enables powerful data access between the module and the SLC processor.

General Specifications
- Single Slot – 1746 backplane compatible (Local or extended I/O rack only. Remote rack not supported)
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module using M0/M1 files
- Ladder Logic is used for data transfer between module and processor. Sample ladder file included
- Configuration data obtained from configuration text file downloaded to module. Sample configuration file included

Hardware Specifications

Specification	Description
Backplane Current Load	800 ma @ 5V (from backplane)
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	–40 to 85°C (–40 to 185°F)
Relative Humidity	5 to 95% (non-condensing)
Shock	30g operational, 50g non-operational
Vibration	5 g from 10150 Hz

Specification	Description
LED indicators	Module status, Backplane transfer status, Application status, Serial activity (debug port), Ethernet link and activity, and error LED status
Debug/Configuration port (CFG)	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking
Configuration Connector	RJ45 RS-232 Connector (RJ45 to DB-9 cable shipped with unit)
Application Ports	
Ethernet Port (Ethernet Modules)	RJ45 Connector Link and activity LED indicators

Functional Specifications

- Five Servers and Clients to receive and/or transmit data
- 10/100MB Ethernet-compatible interface
- Configurable parameters
  - Service port number
  - Connection timeout
  - Close type
- Simple ladder logic operation
- Setup and monitoring through RS-Logix 500 software and user-constructed configuration file (GEC.CFG)
- SLC backplane interface via I/O access
- Each Server monitors
  - State
  - IP and port number of connected Client
  - Error codes
- Each Client monitors
  - State
  - IP and port number of connected Server
  - Message related parameters
- ASCII character strings up to 2048 characters in length supported
- Full hardware handshaking control
- Memory usage is completely user-configurable, supporting the storage and transfer of up to 4000 bytes to/from the control processor
- Module error and status conditions returned to processor for diagnostic purposes
  - Module status
  - Port error status word (bit mapped)
  - Port receive state
  - Port receive character count
  - Port receive block count
  - Port transmit state
  - Port transmit character count
  - Port transmit block count
- Module configuration and communication configuration data is transferred to the MVI46-GEC via a pre-defined user data type in the processor

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Compatible products in the inRAx product line also include:

Application Development Ethernet Communication Module (MVI46-MNET)

Visit our web site at http://www.prosoft-technology.com for a complete list of products.

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